

Quick Start Guide

This document describes how to unpack and install an ARCvault 48 library into a standard RETMA 19" rack. The library has a 4U form factor.

Each unit comes with a Rack Kit and an Accessory Kit containing these items:

- *Read Me First* document
- Power cord
- Bar code labels

- Magazine Release Tool
- Documentation CD with a PDF of the user guide
- This *ARCvault 48 Quick Start Guide*

For SCSI drive models, the Accessory Kit also includes:

- LVD SCSI cable, 2m (6.5 ft.)
- SCSI terminator

Before unpacking the unit, ensure that the area is free from conditions that cause electrostatic discharge (ESD).

First Things First—Activate Your Warranty!

Before installing your new unit, it is essential that you activate your ARCvault warranty. Technical and warranty support are not available until this is done.

All that is required is for you to register your unit at the Overland Technical Support website.

1. Go to the Overland Technical Support website at: <http://support.overlandstorage.com/>
2. Using the MEMBER LOGIN E-mail and Password fields, **log in** to the site.

NOTE: If you are not yet a member, click the SIGN UP NOW button and follow the instructions to become a member. It's free!

3. Under MY PRODUCTS, click **Add or Register a New Product** and follow the on-screen instructions.



Unpacking the ARCvault Unit



WARNING: Due to the weight of the unit, it is recommended that at least two people be used to lift the unit out of the box to prevent injury.

1. Open the top of the box (Figure 1) and remove both the **Rack Kit** box and **Accessory Kit** bag.
2. Remove the **top caps**.
3. Lift the **ARCvault** out and set it on a secure surface.
4. Remove the **ESD bag** from the library.
5. Using the enclosed Important Unpacking Instructions, remove the **screws and well nuts** underneath and the **shuttle bracket** inside.

CAUTION: The screws and bracket hold the robotics in place for shipment and **MUST** be removed before operating.

6. Place **all** packaging components in the box.
7. Save the **box** in case you ever need to ship the unit.

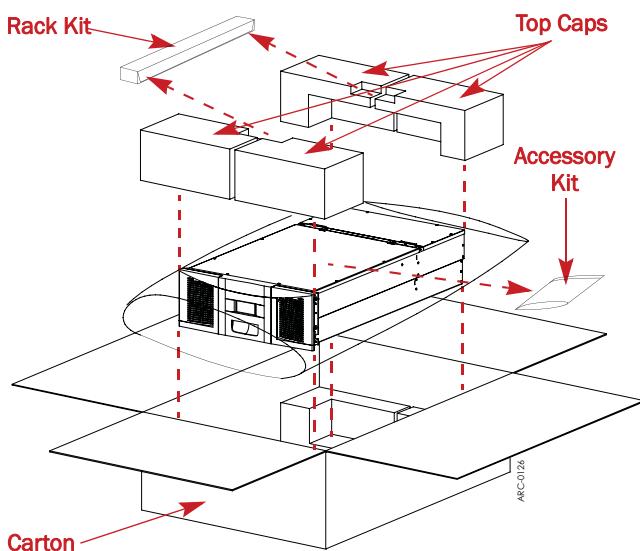


Figure 1. Unpacking an ARCvault 48

Installing the Rack Kit

Every ARCVault 48 comes with a tray-style Rack Kit that allows you to easily install and remove the unit without having to engage side rails. The Rack Kit includes all mounting hardware.



WARNING: It is recommended that a mechanical lifter (or at least two people) be used to raise and align the unit to prevent injury during installation.



WARNING: Use care when inserting or removing an ARCVault unit into or out of a rack to prevent the accidental tipping of the unit causing damage or personal injury.

1. Locate and mark the holes for the rails and retaining screws:

- a. Starting with the **right front flange**, at the bottom of the rack (or from the top of a previously mounted component), locate the **first set** (Figure 2) of three holes with equal gaps of 5/8 inch (1.6cm).

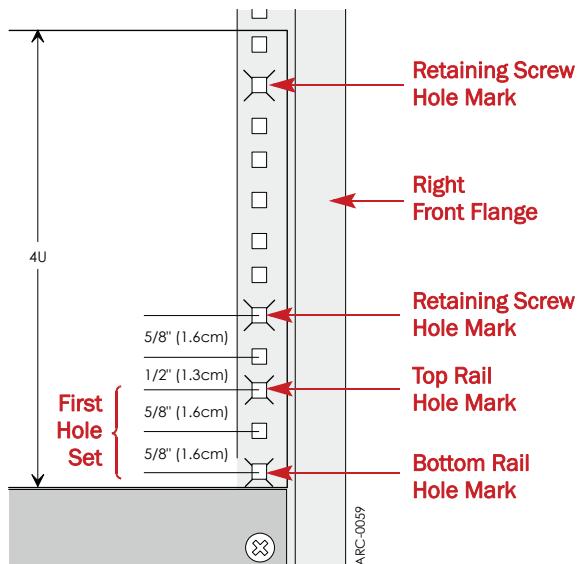


Figure 2. Holes Used for Attaching Rack Kit Rails

- b. Mark the **top** and **bottom** holes of the set for the rail screws.
- c. Mark the **second** and **eighth holes** above the set for the retaining screws.
- d. Repeat Steps a-c for the **left** side.

2. Repeat Step 1 for the **rear** holes.

CAUTION: Be sure rear holes are horizontally in line with the front holes to assure the unit remains level.

3. Adjust the **rail rear brackets** to fit the rail inside the rack flanges:
 - a. Remove and retain the **two adjustment nuts and washers** on the right rail.

- b. Move the **rear bracket** so that the PEM studs are in different slots (Figure 3) based on the rack size.
 - For a 36" rack, use the **two front** slots.
 - For a 30" rack, use the **two center** slots.
 - For a 24" rack, use the **two rear** slots.

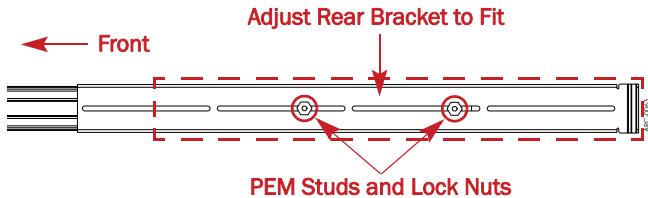


Figure 3. Outside Rail Adjustment for 30" Rack

- c. Loosely replace the retained **washers and screws**.
- d. Repeat Steps a-c for the **left** rail.

4. Using the eight SEMS screws and four **bar nuts** provided, attach the rails (Figure 4) **inside** the flanges:

NOTE: To ensure proper alignment, the bar nut corner notches must face outside, away from the rail.

- a. Attach the **right rail** inside the marked locations (Figure 4) of the right front and right rear flanges.
- b. Tighten the **adjustment nuts**.
- c. Repeat Steps a-b for the **left rail**.

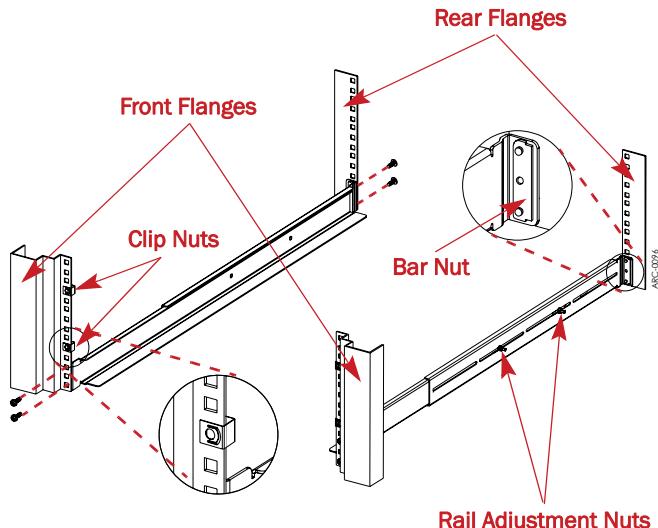


Figure 4. Attaching the Rack Kit Rails

5. Attach **four clip-nuts** to the holes marked on the **front** rack flanges for the retaining thumbscrews.
6. Lift the ARCVault unit and gently **slide it into the rack** until the front panel touches the rack.
7. Tighten the **four retaining thumbscrews** behind the doors to secure the unit to the rack.

ARCvault Overview

Tape cartridges are loaded using the tape magazines provided. The ARCvault 48 has four magazines, two on each side. As a safety feature, the magazine doors must be shut before the internal robotics can function.

There are two ways to interface with an ARCvault unit—the Operator Control Panel (OCP) touch screen on the front panel ([Figure 5](#)) or Remote Management Utility (RMU) accessed via a web browser using the default IP address of 10.0.0.1.

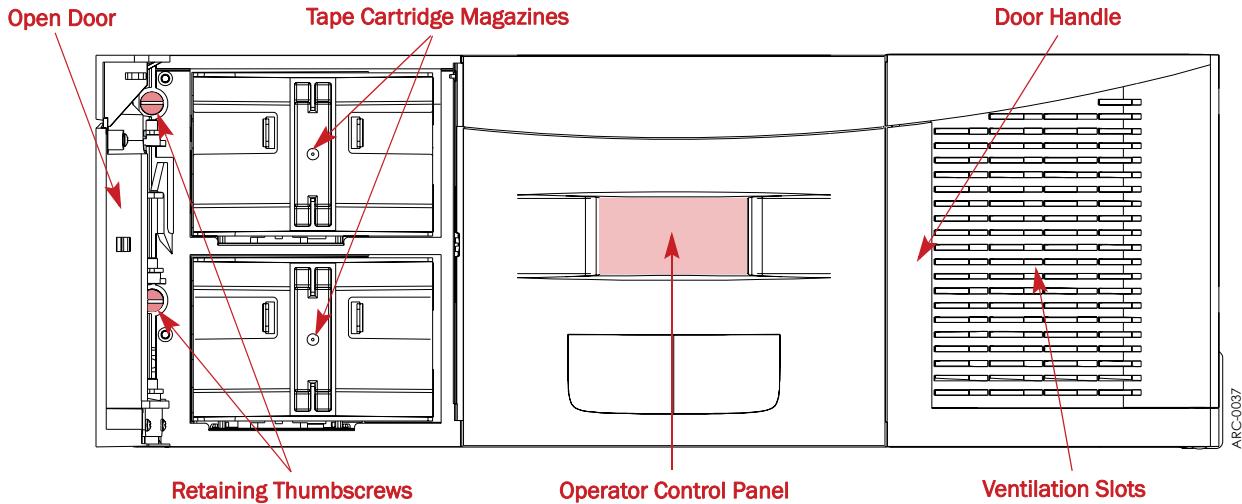


Figure 5. ARCvault Front Panel

All cabling and power connections, along with the unit's power switch, are located on the rear panel ([Figure 6](#)). On a SCSI configuration, the top two SCSI ports connect to Drive 1 and the bottom two ports connect to Drive 2.

Access to the tape drive bay is available through the tape drive cover assemblies. Connections are available for Ethernet and serial cabling. All unit cooling exhaust is handled through the rear panel.

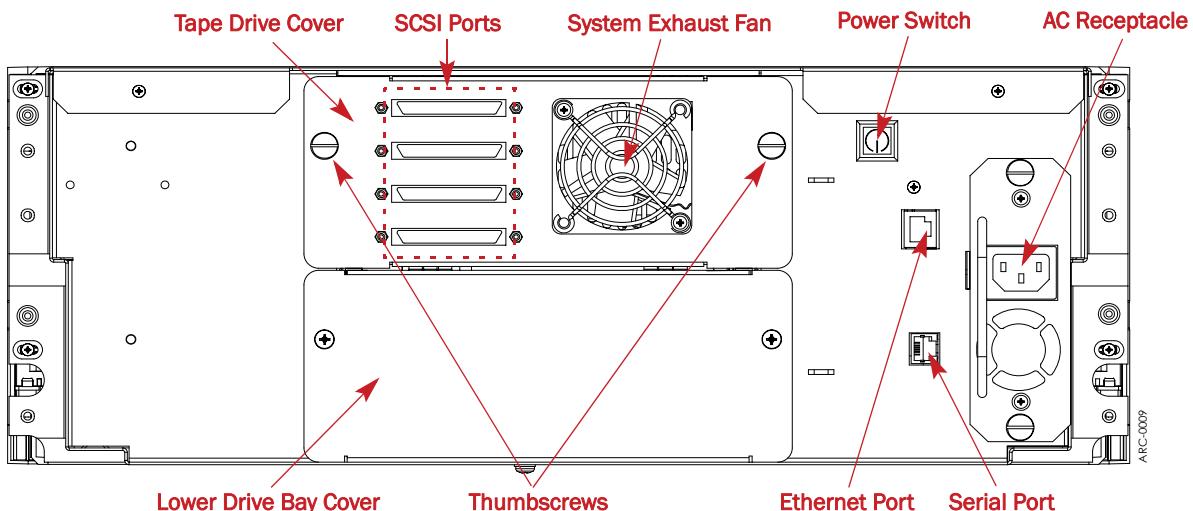


Figure 6. ARCvault Rear Panel (SCSI Configuration)

Attaching Cables

You are ready to connect the unit to your host system. For additional information, see the *ARCvault 48 User Guide*.

SCSI Drives - Single Host

The default SCSI configuration is two half-height drives.

1. Connect the **LVD SCSI cable** to the top SCSI port and the other end to your system.
2. Attach the **SCSI jumper cable** between the second and third ports (Drives 1 and 2).
3. Attach the **SCSI terminator** to the fourth SCSI port.

4. Plug a **network connection** into the Ethernet port.
5. Plug the **power cord** into the AC receptacle and the other end into a power source.

FC Drive - Single Host

The default FC configuration is one full-height drive.

1. Connect your **Fibre Channel cabling** to either of the FC ports and the other end to your system ([Figure 7](#)).
2. Plug the **network connection** into the Ethernet port.
3. Plug the **power cord** into the AC receptacle and the other end into a power source.

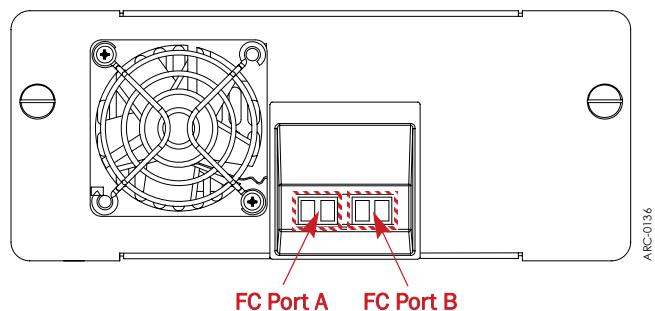


Figure 7. FC Drive Cover Assembly

Getting Started

Use the following general information to operate the OCP:

- Rectangles are usually buttons. Press to activate them.
- Arrow buttons allow you to scroll through the options.
- Press Back/Cancel to return to a previous screen.

Initial Setup

To get your ARCVault 48 ready for everyday use, follow these first time use procedures.

1. Tap the **OCP** touch screen to power on the unit.

Wait about 5 minutes for Power-On Self-Test (POST) to complete and the Default ([Figure 8](#)) screen to display.



Figure 8. Default OCP Screens

2. For a SCSI unit, change the **SCSI ID** numbers if they need to be different than the default settings of 1 and 2:
 - a. Press **Setup > Edit Opts > SCSI/FC > OK** (at going offline message).
 - b. Press the **Drv 1 Bus ID** data field on the right.
 - c. Press the **New** data field.
 - d. Using the pop-up keyboard, enter the new **SCSI ID number** and press **OK**.

- e. Press **Save** and then press **OK** to confirm.

- f. Repeat Steps [a-e](#) for the other drive.
- g. Press **Back** three times.

3. Load the **tape media** into the magazines:

CAUTION: Keep a loaded magazine level. Tilting the magazine can result in the tapes falling out and possibly being damaged. Also, don't hold a magazine by just the handle; use both hands to support it.

- a. At the Default screen, press **Media > Mag Access > OK** (at going offline message) > **Unlock All**.
- b. Open doors, remove **magazines**, load tape **cartridges**, reinsert magazines into the same bays, and close doors.

Each magazine relocks automatically.

NOTE: If you did not remove all ARCVault 48 magazines, you must press **Relock All** before continuing.

- c. Press **Back once**.
Wait while the unit inventories the magazines.
- d. Press **Back again** to return to Default screen.

Additional Information

Your system is now ready for use. For more options, including the creation of partitions, refer to the *ARCVault 48 User Guide* found on the *ARCVault Documentation CD* in the Accessory Kit.

Additional Help

You can get additional technical support on the Internet at <http://support.overlandstorage.com>, or call 1-877-654-3429 (toll-free U.S. & Canada), +44 (0) 118-9898050 (Europe), or +1 (858) 571-5555 Option 5 (International).

All information contained in or disclosed by this document is considered proprietary by Overland Storage. By accepting this material, the recipient agrees that this material and the information contained therein are held in confidence and in trust and will not be used, reproduced in whole or in part, nor its contents revealed to others, except to meet the purpose for which it was delivered. It is understood that no right is conveyed or reproduced or have reproduced any item herein disclosed without express permission from Overland Storage. Overland Storage provides this document as is, without warranty of any kind, either expressed or implied, including, but not limited to, the implied warranties of merchantability and fitness for a particular purpose. Overland Storage may make improvements or changes in the product(s) or program(s) described in this document at any time. These changes will be incorporated in new editions of this publication.

Overland Storage assumes no responsibility for the accuracy, completeness, sufficiency, or usefulness of this document, nor for any problem that might arise from the use of the information in this document.